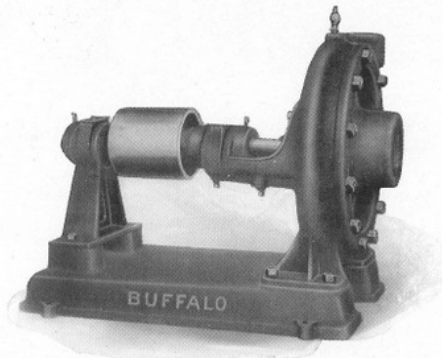


BUFFALO

Single Suction Class "O" Centrifugal Pumps



Bulletin 957

**Buffalo Steam Pump Co.
Buffalo, N. Y.**

New York
Boston
Philadelphia
Pittsburgh
Charlotte, N. C.

Cleveland
Detroit
Chicago
St. Louis
Los Angeles

New Orleans
Atlanta
Minneapolis
Denver
Salt Lake City

**Canadian Blower & Forge Co., Ltd.
Kitchener, Ont., Canada**

Toronto Montreal Calgary Vancouver St. John.

Buffalo Class "O" Centrifugal Pumps

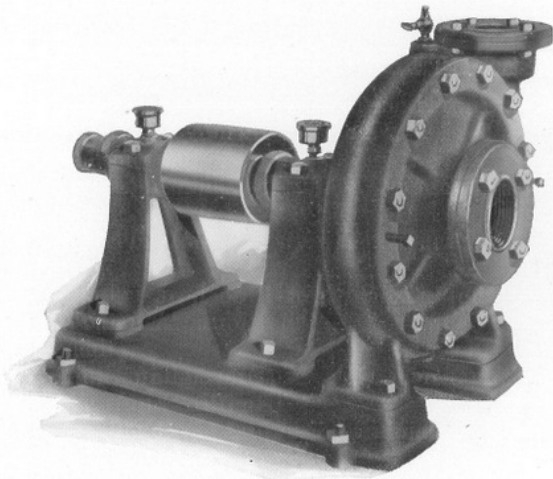


Fig. 942

Class "O" Pumps are regularly furnished for right hand rotation and up discharge. Left hand rotation and other positions of discharge opening can be furnished on special order.

Buffalo Class "O" Pumps are of the single open end suction type. They are built in sizes from $\frac{1}{2}$ " to 3" for capacities from 8 to 325 gallons per minute, and for heads up to 100 ft. They can be arranged for either pulley drive or for direct connection to a motor.

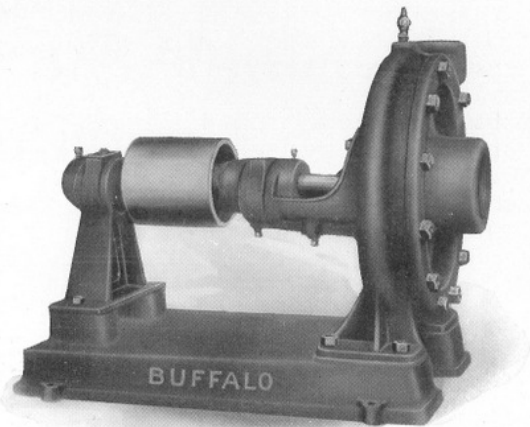


Fig. 943

Standard construction includes an enclosed type brass impeller, finished all over, assuring high efficiency. Where service requires, an open type impeller can be used with only a small decrease in efficiency.

Bearings are large and well lubricated. Ample provision is made on all sizes for taking care of any thrust action.

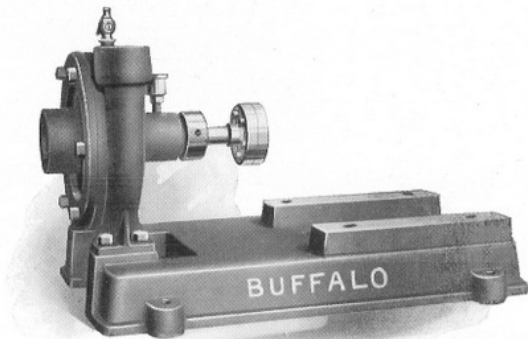


Fig. 944

Weight has been reduced as much as possible consistent with good design, allowing Buffalo Class "O" Pumps to be built in brass or bronze with a very low first cost.

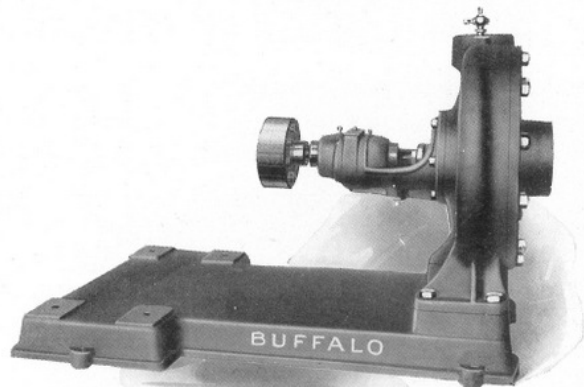


Fig. 945

Buffalo Class "O" Centrifugal Pumps

Specifications

CASINGS GOOD FOR 100 FT. PRESSURE

Casing and Suction Side Plate: Cast iron, machined to gauge, drilled to template. Close clearance with impeller, preventing leakage.

Suction: Open end single suction.

Impeller: Brass, single suction enclosed type. Open iron impeller can be furnished on special order.

Shaft: Steel, finished all over. Cannot be brass covered. Monel metal can be furnished on special order.

Shaft Bearings: Grease lubricated on 1½" and smaller pumps. Ring oiling on 2" and larger pumps. All bearings babbitted.

Thrust Bearing: Thrust collar.

Gland: Brass on 1½" and smaller pumps. Cast iron on 2" and larger pumps.

Subbase: Cast iron, ribbed and stiffened.

Coupling: Flanged. Flexible type cannot be furnished.

Fittings: Grease cups and air cocks.

Finish: All pumps painted, filled and rubbed down. Bright parts exposed to weather protected by slushing compound.

Code Word, Regular Fitted, Pulley Driven	Figure Number		Size of Pump, Inches	Pipe Sizes, Inches		Capacity, Gallons per Minute		Size of Pu ley, Inches		Approximate Floor Space, Pulley Pump, Inches
	Pulley Driven	Direct Connected to Motor.		Suction	Discharge	Normal	Maximum	Diameter	Face	
MKHVR	942	944	½	1	½	8	12	3	3	17x12
MKHYZ	942	944	1	1 ½	1	25	35	3	3	17x12
MKIGM	942	944	1 ½	2	1 ½	55	75	4	4	19x14
MKIHN	943	945	2	2 ½	2	100	140	5	5	22x15
MKJJP	943	945	2 ½	3	2 ½	155	225	6	5	27x18
MKIKT	943	945	3	4	3	225	325	7	6	29x26

Add Code Word JCEZR for Open Iron Impeller.

Add Code Word JCGMP for Monel Metal Shaft.

Add Code Word JCWAF for Motor Base and Flanged Coupling.

Speed Limits

Size of Pump, Inches	Normal Capacity, Gallons per Minute	Speed Limits	Revolutions per Minute for Total Heads of 5 to 100 Feet.														
			5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	60'	70'	80'	90'	100'
½	8	Min	875	1175	1375	1575	1750	1900	2050	2175	2325	2450	2700	2900	3100	3250	3400
		Max.	1450	1950	2425	2900	3200	3400	3500	3500	3500	3500	3500	3500	3500	3500	3500
1	25	Min.	900	1200	1420	1620	1800	1950	2100	2250	2400	2520	2780	3000	3200	3350	3500
		Max.	1500	2000	2500	3000	3300	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
1½	55	Min.	600	800	930	1060	1180	1290	1400	1480	1580	1660	1820	1970	2110	2240	2360
		Max.	1100	1450	1800	2050	2280	2480	2680	2870	3060	3200	3200	3200	3200	3200	3200
2	100	Min.	500	700	830	950	1050	1140	1220	1300	1370	1440	1570	1680	1800	1900	1990
		Max.	900	1200	1420	1640	1830	2020	2180	2360	2500	2640	2900	3100	3100	3100	3100
2½	155	Min.	460	600	720	810	900	980	1050	1100	1170	1220	1340	1440	1530	1610	1700
		Max.	800	1100	1300	1520	1720	1880	2020	2170	2300	2400	2650	2860	3000	3000	3000
3	225	Min	440	480	550	610	670	720	780	820	870	920	1000	1080	1160	1220	1290
		Max.	800	1100	1300	1520	1720	1880	2020	2170	2300	2400	2600	2700	2800	2850	2900

Pulley driven pumps operate at minimum speeds as given in table above.

Buffalo Class "O" Centrifugal Pumps

Designation of Parts, Fig. 1040

Number of Part.	Name of Part.
308	Casing
309	Suction Side Plate
310	Impeller
311	Shaft
312	Stuffing Box
313	Bushing
314	Thrust Collar
315	Gland

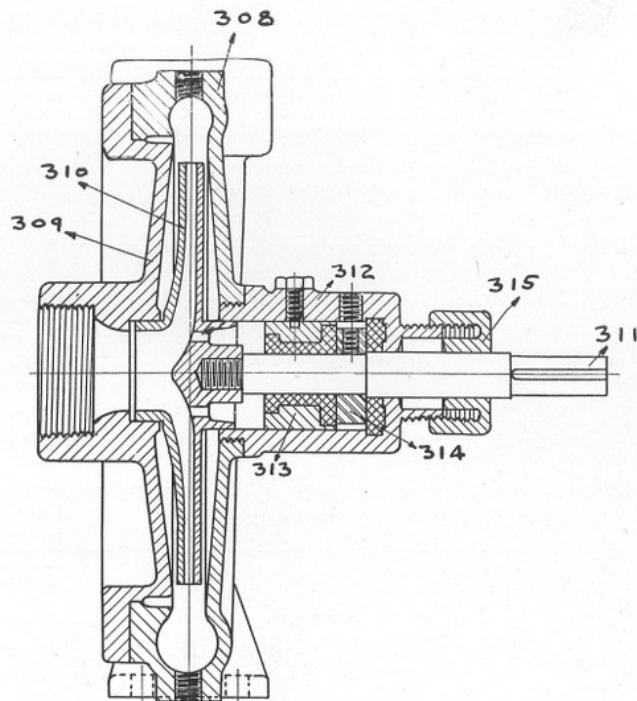


Fig. 1040
Sectional View $\frac{1}{2}$ ", 1", and $1\frac{1}{2}$ " Class "O" Pumps.

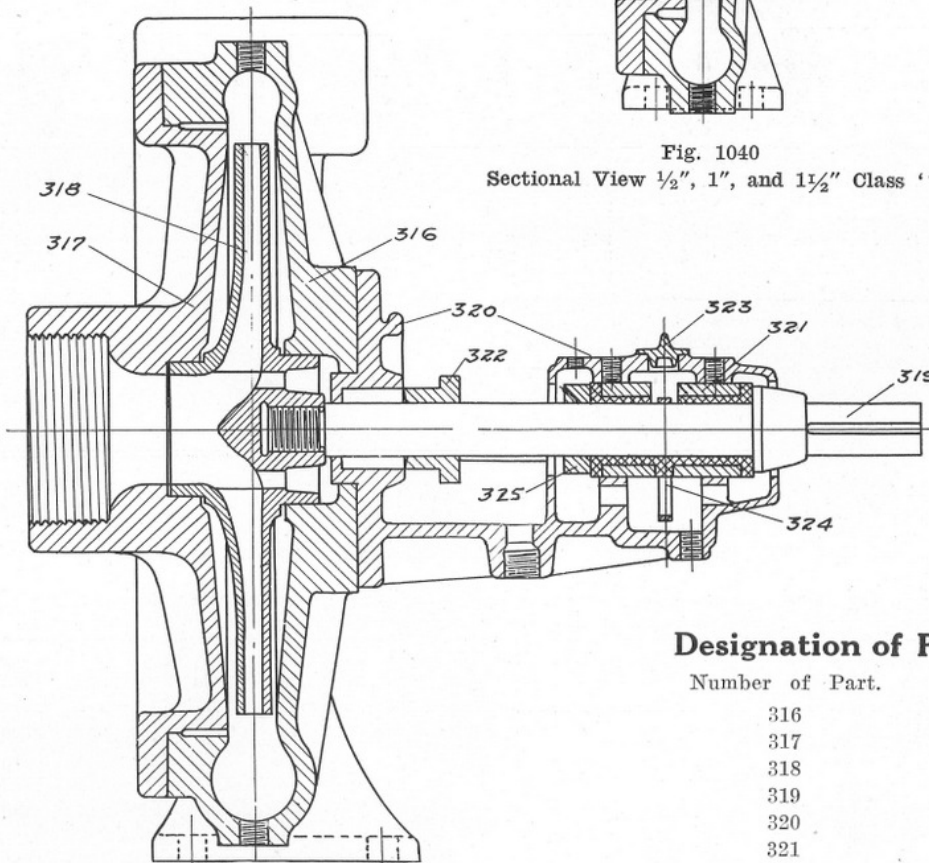


Fig. 1041
Sectional View 2", $2\frac{1}{2}$ ", and 3" Class "O" Pumps.

Designation of Parts, Fig. 1041

Number of Part.	Name of Part.
316	Casing
317	Suction Side Plate
318	Impeller
319	Shaft
320	Bearing
321	Bearing Bushing
322	Gland
323	Oil Cover
324	Oil Ring
325	Thrust Collar

SCANNED BY: AEM OF LOCKPORT NY USA

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EDITED BY: BRIAN D. SZAFRANSKI

ELMA, NEW YORK USA

COURTESY OF: WESTERN NY GAS & STEAM ENGINE ASSOCIATION

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NOTE: ORIGINAL DOCUMENT HAD WATER DAMAGE